

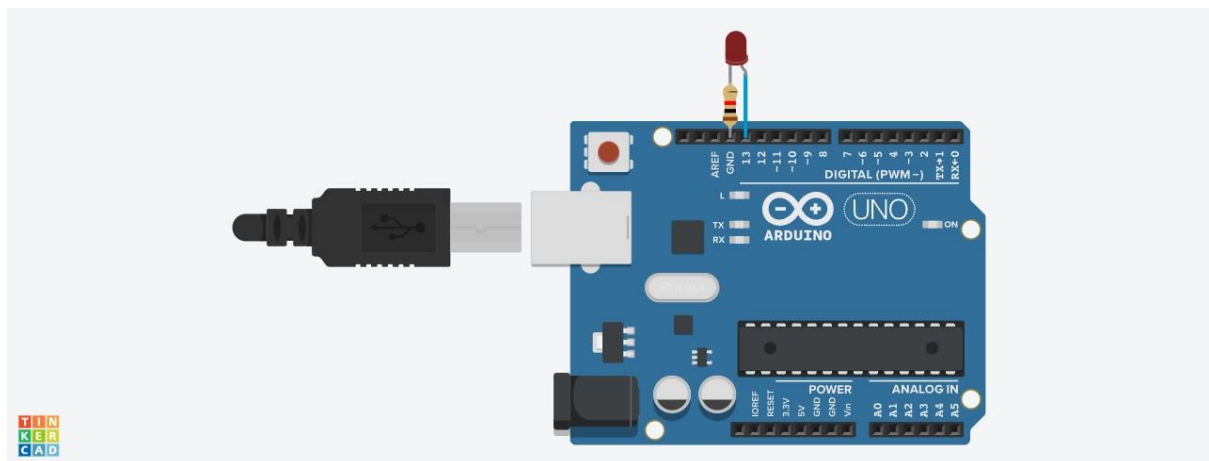
Internet of thing Projects

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Roll no – 12213139

Branch – information technology

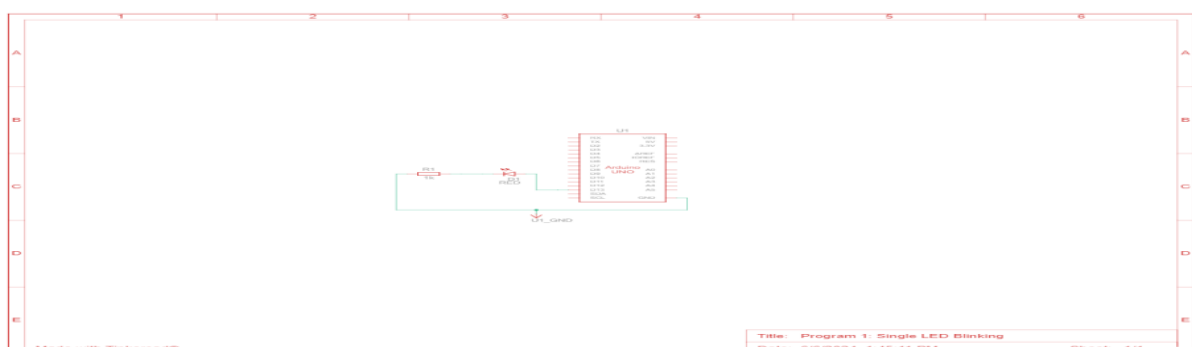
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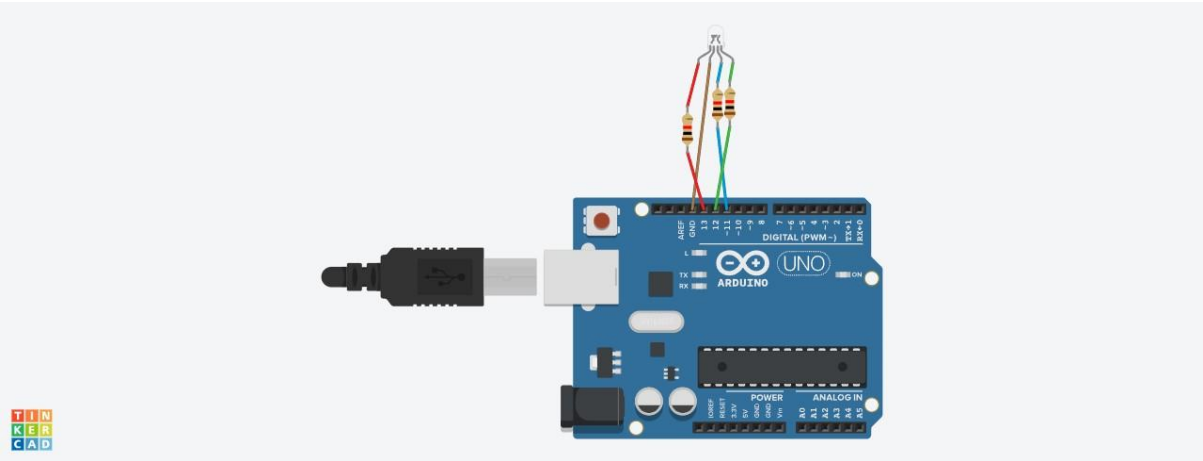
Component list –

Name	Quantity	Component
U1	1	Arduino Uno R3
D1	1	Red LED
R1	1	1 kΩ Resistor

Schematic view



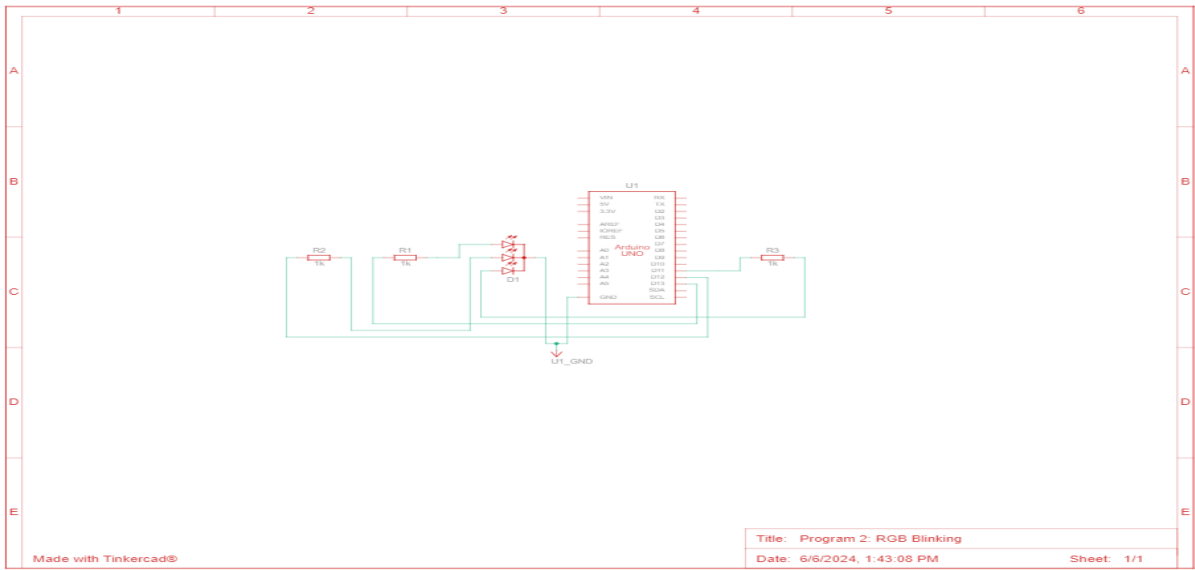
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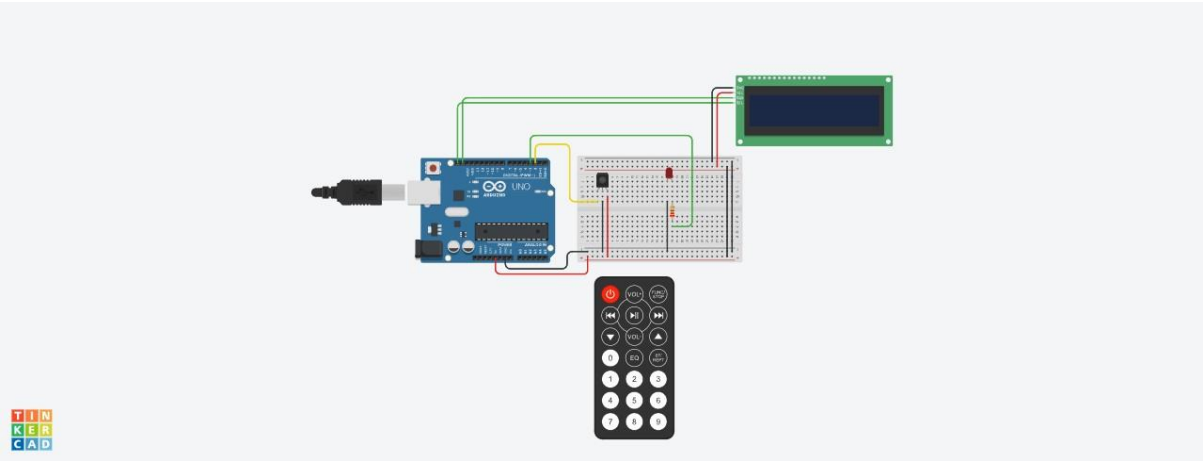
Component list –

Name	Quantity	Component
U1	1	Arduino Uno R3
D1	1	LED RGB
R1 R2 R3	3	1 kΩ Resistor

Schematic view –



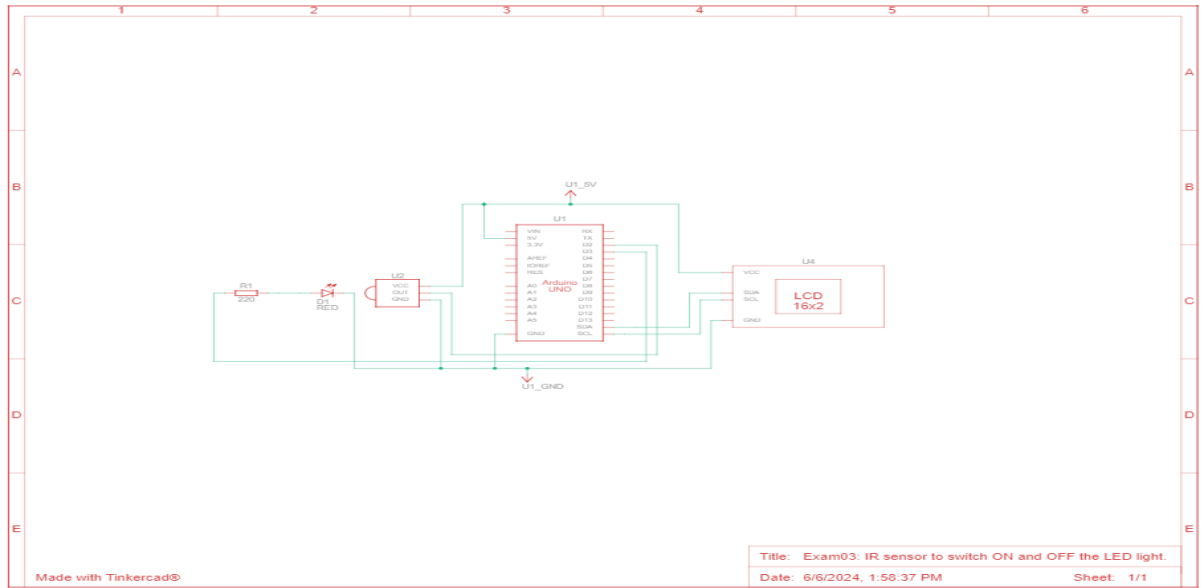
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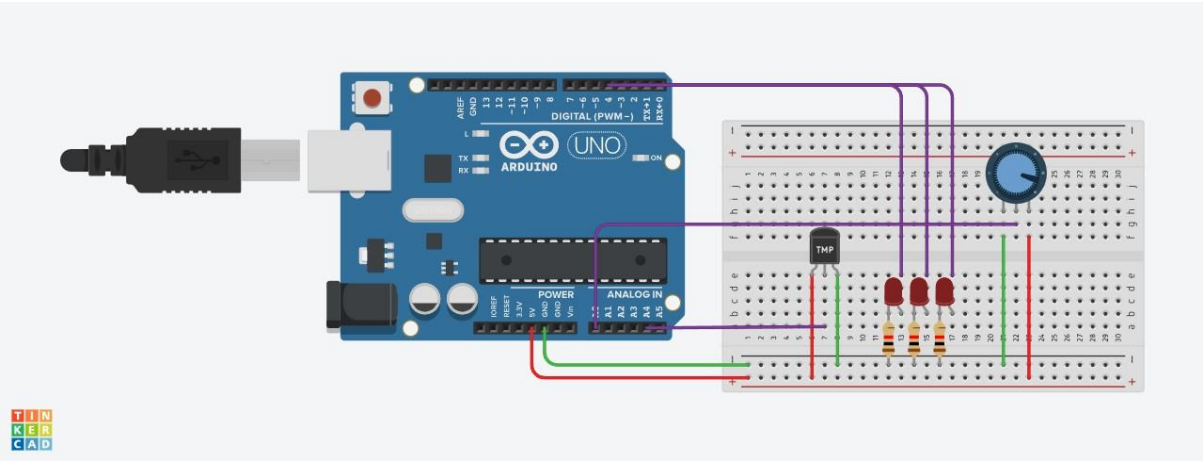
Component list -

Name	Quantity	Component
U1	1	Arduino Uno R3
U2	1	IR sensor
D1	1	Red LED
R1	1	220 Ω Resistor
U4	1	MCP23008-based, 32 (0x20) LCD 16 x 2 (I2C)

Schematic view –



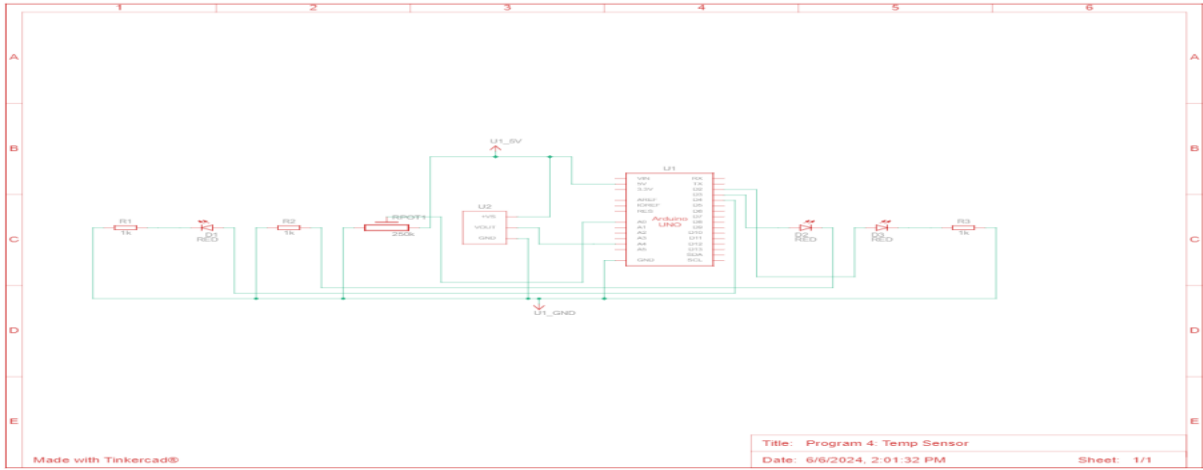
Project 4 –



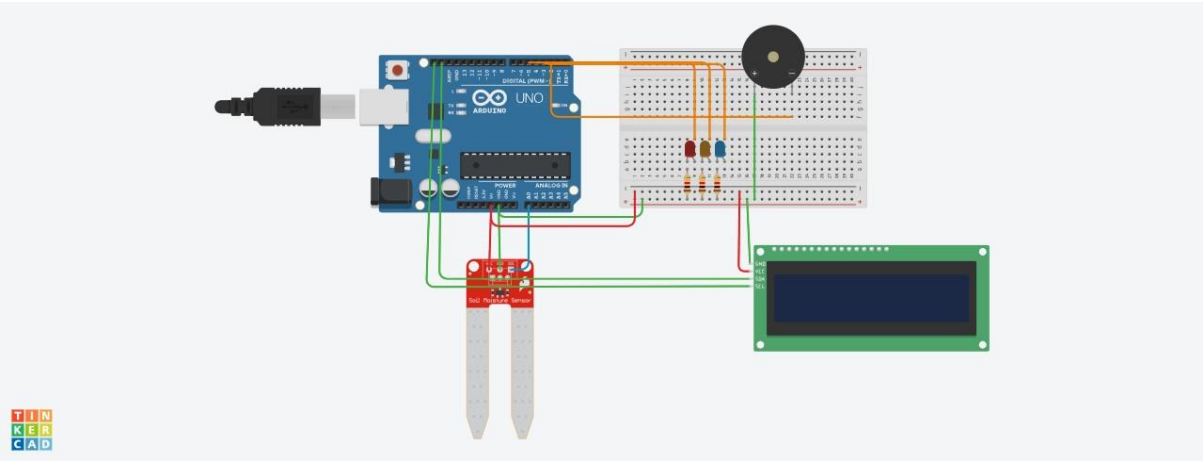
Component list –

Name	Quantity	Component
U1	1	Arduino Uno R3
U2	1	Temperature Sensor [TMP36]
D1 D2 D3	3	Red LED
R1 R2 R3	3	1 kΩ Resistor
Rpot1	1	250 kΩ Potentiometer

Schematic list –



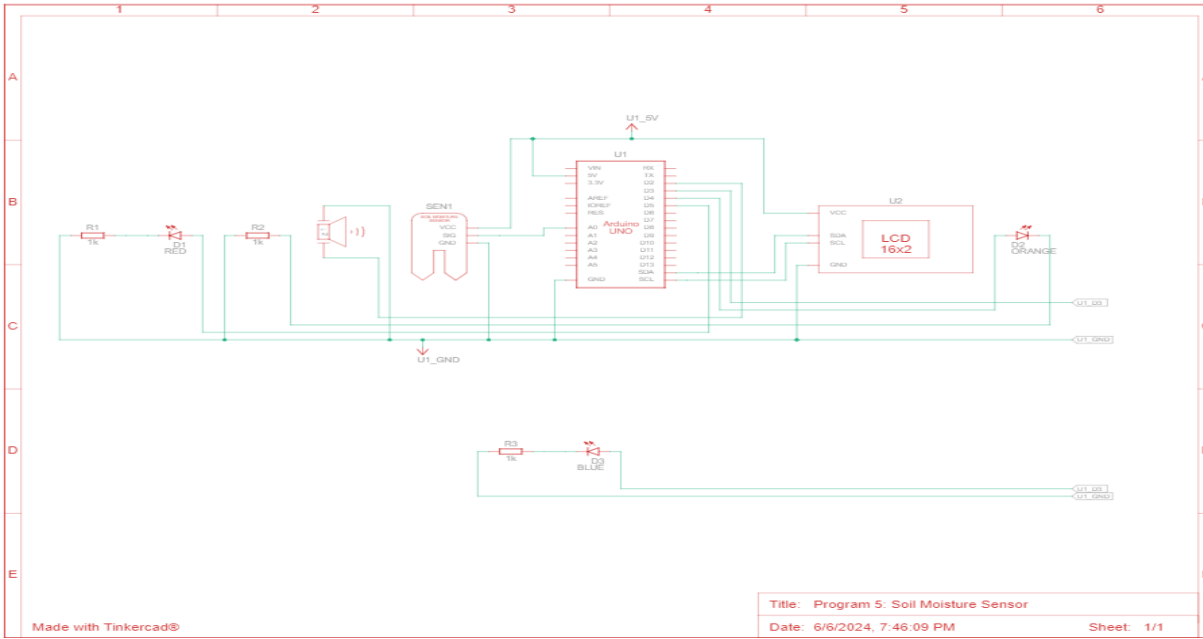
Project 5-



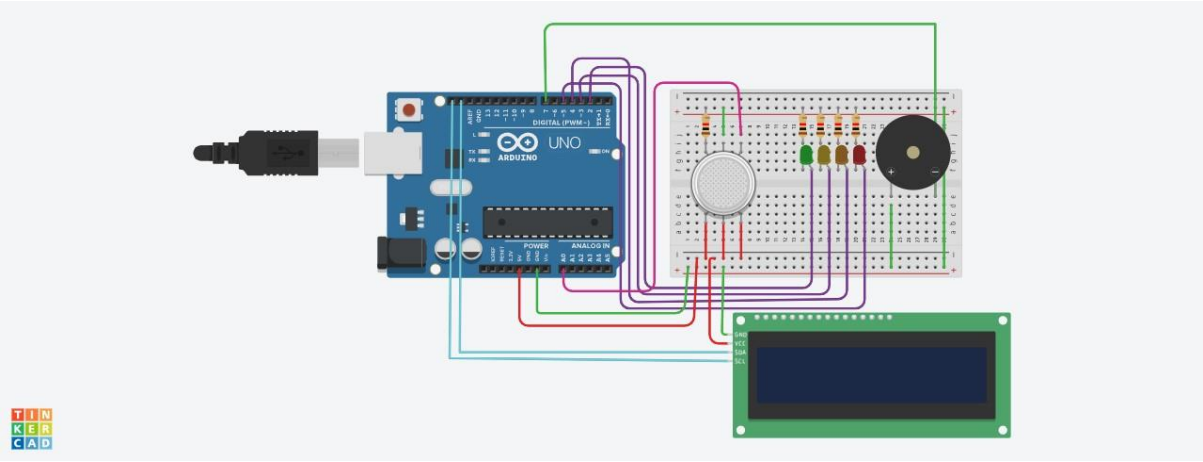
Component list –

Name	Quantity	Component
U1	1	Arduino Uno R3
SEN1	1	Soil Moisture Sensor
PIEZO1	1	Piezo
D1	1	Red LED
D2	1	Orange LED
D3	1	Blue LED
R1 R2 R3	3	1 kΩ Resistor
U2	1	PCF8574-based, 32 (0x20) LCD 16 x 2 (I2C)

Schematic view –



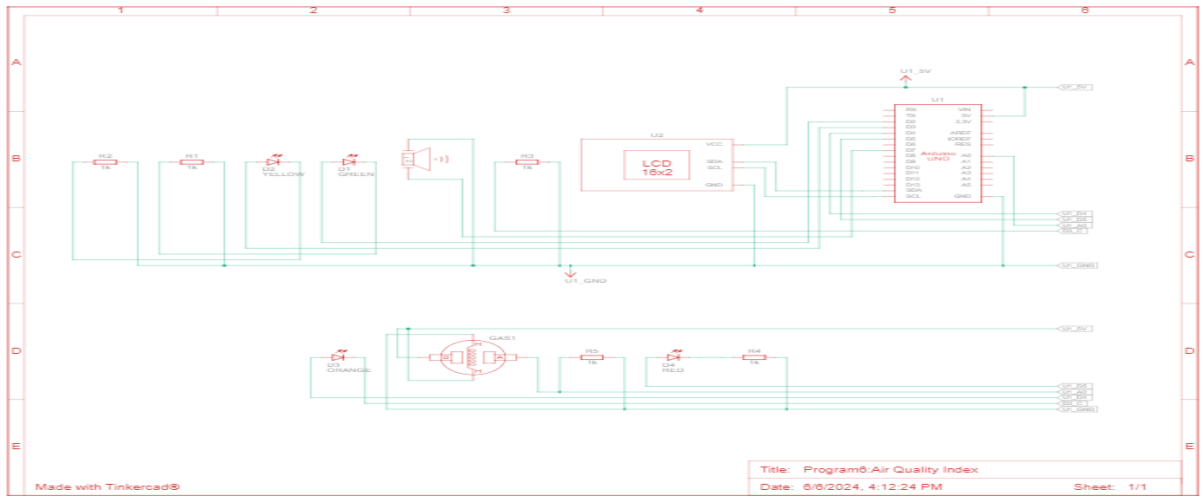
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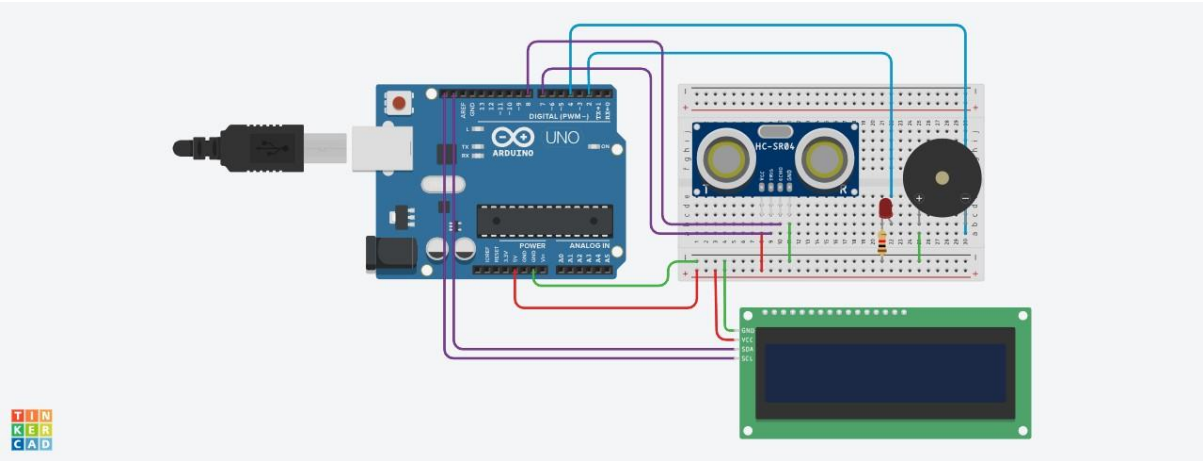
Component list-

Name	Quantity	Component
U1	1	Arduino Uno R3
U2	1	PCF8574-based, 32 (0x20) LCD 16 x 2 (I2C)
D1	1	Green LED
D2	1	Yellow LED
D3	1	Orange LED
D4	1	Red LED
R1 R2 R3 R4 R5	5	1 kΩ Resistor
GAS1	1	Gas Sensor
PIEZO1	1	Piezo

Schematic view-



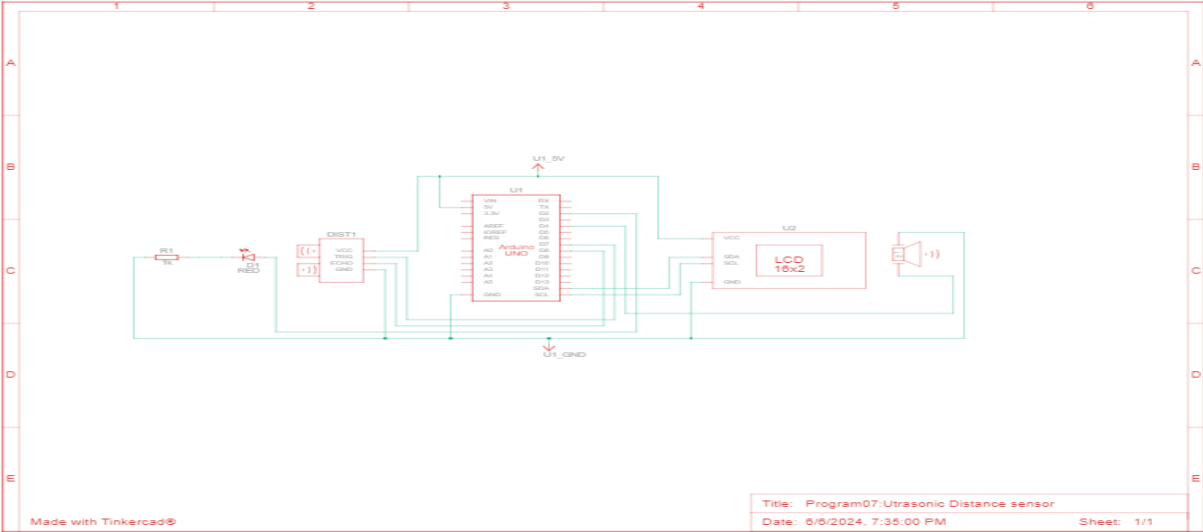
Project 7-



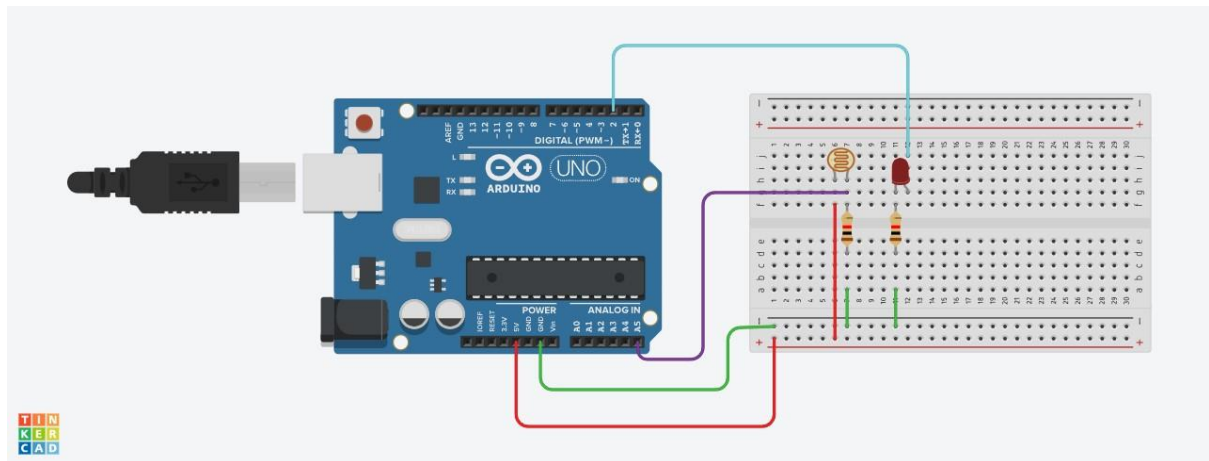
Component list –

Name	Quantity	Component
U1	1	Arduino Uno R3
D1	1	Red LED
R1	1	1 kΩ Resistor
DIST1	1	Ultrasonic Distance Sensor (4-pin)
PIEZO1	1	Piezo
U2	1	PCF8574-based, 32 (0x20) LCD 16 x 2 (I2C)

Schematic view –



Project 8-

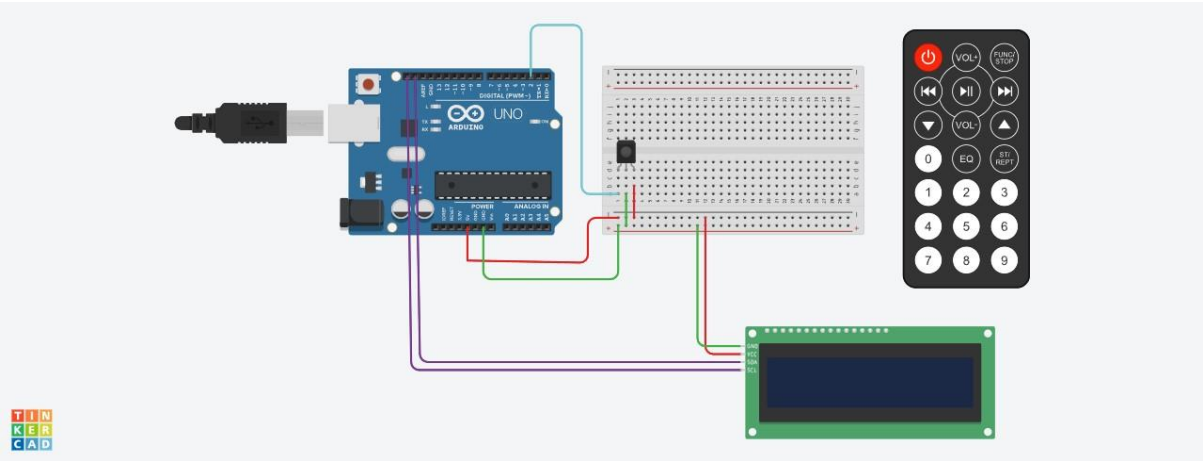


Component list –

Name		Quantity	Component
U1		1	Arduino Uno R3
D1		1	Red LED
R2 R3		2	1 kΩ Resistor
R1		1	Photoresistor

Schematic view –

Project 9-



Component list –

Name	Quantity	Component
U1	1	Arduino Uno R3
U2	1	IR sensor
U4	1	PCF8574-based, 32 (0x20) LCD 16 x 2 (I2C)

Schematic view –

